

BLANK PAGE



IS: 3892 - 1975 (Reaffirmed 2000)

Indian Standard

SPECIFICATION FOR FROZEN LOBSTER TAILS

(First Revision)

First Reprint AUGUST 1983

x 664.951.816.037.5:639.386.6



@ Copyright 1975

INDIAN STANDARDS INSTITUTION
MANUE RHAVAN. 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

Indian Standard

SPECIFICATION FOR FROZEN LOBSTER TAILS

(First Revision)

Fish and Fisheries Products Sectional Committee, AFDC 27

Chairman

SHEI P. C. GEORGE

Representing

Ministry of Agriculture & Irrigation (Department of Agriculture)

Members

SHRI S. K. AMIN

South Kanara District Co-operative Fish Marketing Federation Ltd, Mangalore

SHBI NABAYAN UCHIL (Alternate)
SHBI E. BHASKARAN

Travancore-Cochin Prawn Curers' Co-operative Marketing Society Ltd, Cochin

SHEI P. K. DEWER (Alternate)
SHEI N. J. CHACKO

SHBI N. J. MATHEW (Alternate)
SHBI D. S. CHADHA

CHATRMAN

Kerala Food Packers, Alleppey, Cochin

SECRETARY (Alternate)

Central Committee for Food Standards (Ministry of Health & Family Planning), New Delhi Technical Standardization Committee (Foodstuffs), Ministry of Agriculture & Irrigation

SHEI S. T. CHABI

Directorate of Fisheries, Government of Tamil Nadu, Madras

SMT FEEDA CHANDEASHEKHABAN (Alternote)
SHBI K. CHIDAMBARAM Marine Pro

Marine Products Export Development Authority, Cochin

SHRI A. I. GEORGE (Alternate)
SHRI M. P. DEVASUNDARAM

Ministry of Agriculture & Irrigation (Department of Agriculture)

DR T. A. MAMMEN (Alternate) SHBI DEVENDRA NATH

State Trading Corporation of India Ltd, New Delhi

SHRI B. S. KANGRA (Alternate I)
SHRI N. VAIDYANATHAN (Alternate II)

Export Inspection Council of India, Calcutta

SHRI O. P. DHAMIJA Ex DR K. P. SHRIVASTAVA (Alternate)

(Continued on page 2)

C Copyright 1975

INDIAN STANDARDS INSTITUTION

This publication is protected under the *Indian Copyright Act* (XIV of 1957) and reproduction in whole or in part by any means except with written permission of the publisher shall be deemed to be an infringement of copyright under the said. Act.

IS: 3892 - 1975

(Continued from page 1)

• • • •				
Members	Representing			
DIRECTOR	Central Institute of Fisheries Technology, Ernakulam			
SHRI S. AMBROSE FERNANDO	Fish Exporters Chamber, Tuticorin			
SHRI JOHN P. GRORGE	Island Seafoods Private Ltd, Cochin			
SHRI C. K. GEORGE (Alternate)	·			
DR S. V. GORHALE	Konkan Fisheries Private Limited, Mormugao Harbour, Goa			
SHRI G. R. KASSAMALI	M/s G, R, Kassamali, Bombay			
SHRI Z. G. NATHANI (Alternate)				
LT-COL L. C. KATOCH	Directorate of Remount Veterinary Services, Quartermaster General's Branch, Army Headquarters			
Maj A. G. Bhasker Singh (Al	ternate)			
DR N. L. LAHIRY	Central Food Technological Research Institute (CSIR), Mysore			
Dr S. V. Suryanarayana Rao	(Alternate)			
SHRI S. B. S. MANI	Gujarat Fisheries Central Co-operative Association Ltd, Ahmedabad			
SHRI V. G. MARATHE	Directorate of Fisheries, Government of Maharashtra, Bombay			
SHRI S. P. KILLEKAB (Alternate)	· ·			
SHBI R. MADHAVAN NAYAB	Cochin Company Private Ltd, Ernakulam			
Shri N. K. Sadanandan (Alte				
SHRI FREDRICK FELIX PAIS	The Mysore Seafood Canners' and Exporters' Association (Regd), Mangalore			
SHRI RAHEEM AHMED	Coronet Canning Company, Malpe (Karnataka State)			
SHRI S. RAMASWAMY	Directorate General of Technical Development, New Delhi			
SHBI N. K. MURALIDHARA RAO	Directorate of Marketing & Inspection (Ministry of Agriculture & Irrigation), Faridabad			
SHRI S. JAYARAMAN (Alternate)				
COL K. SEETABAM	Quartermaster General's Branch, Army Headquarters			
LT-COL O. P. KAPUB (Alternate)				
SHRI O. C. THOMAS	The Seafood Exporters Association of India, Cochin			
Seri C. J. Panikkaserry (Alte	rnale)			
SHRI M. MUKUNDAN UNNI	Directorate of Fisheries, Government of Kerala, Trivandrum			
Dr Hari Bhagwan, Director (Agri & Food)	Director General, ISI (Ex-oficio Member)			

Secretory Shri Manohab T. Santwani Assistant Director (Agri & Food), ISI

(Continued on page 7)

(Continued from page 2)

Frozen Fish Products Subcommittee, AFDC 27:2

Convener	Representing			
DIRECTOR	Central Institute of Fisheries Technology, Ernakulam			
Member s				
SHRI S. K. AMIN	South Kanara District Co-operative Fish Marketing Federation Ltd., Mangalore			
SHEI NARAYAN UCHIL (Alterna				
SHRI C. CHERIAN	M/s Chemmeens (Regd), Cochin			
SHRI K. CHIDAMBARAM	Marine Products Export Development Authority, Cochin			
SHRI A. I. GEORGE (Alternate)				
Shri K. C. Dr'	Metal Box Company of India Limited, Calcutta			
DE V. V. KARNIK (Alternate)	order of the company			
SHRI C. G. DHAPRE	Directorate of Fisheries, Government of			
Shri John P. George	Island Seafood Private Limited, Cochin			
DR S. V. GORHALE	Konkan Fisheries Private Limited, Mormugao Harbour, Goa			
Srbi G. R. Kassamali	M/s G. R. Kassamali, Bombay			
SHRI S. B. MANI	Gujarat Fisheries Central Co-operative Association Ltd, Ahmedabad			
DR M. N. MOORJANI	Central Food Technological Research Institute (CSIR), Mysore			
Shri R. Madhavan Nayar	Cochin Company Private Limited, Ernakulam			

Indian Standard

SPECIFICATION FOR FROZEN LOBSTER TAILS

(First Revision)

0. FOREWORD

- 0.1 This Indian Standard (First Revision) was adopted by the Indian Standards Institution on 24 February 1975, after the draft finalized by the Fish and Fisheries Products Sectional Committee had been approved by the Agricultural and Food Products Division Council.
- **0.2** Quick frozen lobster tails constitute one of the important marine products exported from our country. There is considerable scope for developing our exports further if the quality of the products is maintained continuously at a higher level.
- **0.3** This standard was first published in 1966. In the present revision almost all the requirements have been modified and elaborated mainly based on the survey undertaken and information supplied by the Export Inspection Agency, Cochin.
- 0.4 In the preparation of this standard, due consideration has been given to the provisions of the Prevention of Food Adulteration Act, 1954 and the Prevention of Food Adulteration Rules, 1955. However, this standard is subject to the restrictions imposed under this Act, wherever applicable.
- 0.5 This standard contains clauses which call for an agreement between the purchaser and the vendor at the time of placing orders. The relevant clauses are 3.1 and 4.4.2.
- **0.6** For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS: 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

^{*}Rules for rounding off numerical values (recised).

IS: 3892 - 1975

1. SCOPE

1.1 This standard prescribes the requirements and the method of sampling and test for tails of all the species of the genera Panulirus, Thunnus and Peurulus.

2. TERMINOLOGY

- 2.0 For the purpose of this standard, the following definition shall apply
- 2.1 Size Mass in gram per piece of lobster tail.

3. GRADES AND TYPES

3.1 Grades — Unless otherwise agreed to between the purchaser and the vendor, the material shall be of the following seven grades:

Grade Designation	Mass/Individual Pie		
Super Jumbo	Above 340 g		
Jumbo	285 to 340 g		
Large	225 ,, 284 g		
Medium	170 ,, 224 g		
Small	115 ,, 169 g		
Extra Small	50 ,, 114 g		
Tiny	Below 50 g		

3.2 Types — Fresh frozen lobster tails shall be of two types, depending upon the colour of the meat, namely, (a)-snow-white to white, and (b) light pink to pink.

4. REQUIREMENTS

- 4.1 Hygienic Requirements The material shall be prepared, filled and processed under hygienic conditions; only in premises maintained in a thoroughly clean and hygienic manner [see IS: 4303 (Part II)-1967*] and duly approved or licensed by the authorities.
- 4.2 Raw Material The raw material shall be fresh having its characteristic colour, appearance and odour. The meat shall not show any discolouration or deterioration and shall not give any off odour. The tails shall be free from eggs, saw dust, sand, dirt, and any other extraneous matter.

4.3 Processing

4.3.1 Preparation — Fresh lobsters shall be first washed thoroughly with potable water to remove all the adhering sand, dust, loose eggs, etc.

^{*}Code for sanitary conditions, handling and transport in fish industry: Part II Sanitary conditions for fish processing units.

After beheading, the tails shall be cleaned so as to remove eggs, swimmerets and the alimentary tract. The material shall then be finally washed with potable water containing 5 ppm chlorine. It shall be stored and transported with sufficient ice to the processing factory within the minimum possible time.

- **4.3.2** Freezing After proper washing with potable water containing 5 ppm chlorine, the lobster tails shall be either frozen in blocks or wrapped individually in polythene film or any other suitable moisture-proof covering already dipped in 5 ppm chlorine water for 5 minutes. In case of delay in keeping the material for freezing, the material shall be temporarily kept in chill room in 20 ppm chlorine water with suitable amount of ice. The material shall be quick frozen at or below -40°C within the minimum possible time.
- 43.3 Storing The frozen material shall be transferred to a storage room maintained at or below -18° C.
- 4.3.4 Grading Grading shall be done either before final washing and wrapping or after freezing, that is, before filling into the containers.

4.4 Requirements for the End Products

- 4.4.1 When thawed, lobster tails shall have colour, appearance and odour characteristic of the species. They shall be free from eggs, saw dust, sand, dirt and any other extraneous matter. They shall also be free from defects, such as dehydration, discolouration, deterioration, black spots and off odour.
- 4.4.2 The microbiological count of the frozen lobster tails shall be as given below:

Total bacterial count per g, Max	5×10^{4}
E. coli per g, Max	20
Salmonella	Absent
Coagulase positive Staphylococci, Max	100

NOTE — The Indian Standard methods of test for these are under preparation. Until these are published, the methods shall be subject to agreement between the purchaser and the vendor.

5. PACKING AND MARKING

5.1 Packing—The frozen material shall be packed in plywood or deal-wood cases or cardboard cartons. The container shall be bound securely by nylon or iron hoops and stored at or below—18°C. The mass of the thawed material shall be not less than that of the net mass declared on the package.

IS: 3892 - 1975

- 5.2 Marking Each container shall be marked with the following:
 - a) Name, grade and count of the material with brand name, if any;
 - b) Name and address of the manufacturer;
 - c) Size and type;
 - d) Batch or code number;
 - e) Gross and net mass of contents; and
 - f) Country of origin.
- 5.2.1 Each container may also be marked with the ISI Certification Mark.

Norm — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act and the Rules and Regulations made thereunder. The ISI Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

6. SAMPLING

6.1 The method of drawing representative samples and criteria for conformity shall be as given in Appendix B of IS: 6122-1972*.

7. TESTS

- 7.1 Tests shall be carried out as specified in 3.1, 3.2, 4.2, 4.3.2 and 4.4.2 of this standard.
- 7.2 Quality of Reagents and Ingredients Unless specified otherwise, pure chemicals and ingredients of a quality suitable for microbiological analysis shall be used.

^{*}Specification for seer fish (Scomberomona spp.), frozen.

INTERNATIONAL SYSTEM OF UNITS (SI UNITS)

# ·	150	120	. 1	ŧ.
22.0	44.8	300	10	E. 500

Quantily	Unit	Symbol	
Leogth	metrė	m	
Mase	kilogram	kg	
Time	second	*	
Electric current	ampere	Ą	
Thermodynamic temperature	kalvin	K	
Luminous intensity	candela	cd	
Amount of substance	mole	mol	
Supplementary Units			
Quantity	Unit	Symbol	
Planc angle	radian	rad	
Salld angle	ateradian	31	
Perivod Units			
Guantity	Unit	Symbol	Conversion
Force	rewton	N	1 N = 1 hg.t m/st
Energy	joule	3	1 J == 5 N.79
Power	watt	W	1 W ** 1 d a
Flux	weber	Wb	1 Wb = 1 V.s
Flux density	tesla	Υ ,	.t T - t Wb/ai*
Frequency	hertz	Hiz	1 Hz == 1 c/s (s-1)
Electric conductance	siemens	5 ş	1 5-1A/V
Pressura, stress	hoseod	Pa	1 Pa = 1 N/m

INDIAN STANDARDS INSTITUTION

Manak Bhazan, 9 Bahadur Shah Zolar Marg, N Telephones: 26 69 21, 27 91 31	EW DELHI 110002 Tèlegrams : Mana)	(88)	320	ha.
Regional Officesi	Ţ	elep	one	ne
Western : Novelty Chambers, Grant Road	BOMBAY 400007	37	97	29
Eastern : 5 Chowyinghes Approach	CÂLCUTTA 700072	23-	08	02
Southern : C. I. T. Campus, Adyar	MADRAS 600020	41	24	42
Branch Officest	A Sec 3			
"Pushpak", Nurmohamed Sheikh Marg, Khanpur	AHMADABAD 380001	2	0.3	91
'F' Block, Unity Bldg, Narasimhafaja Squara	BANGALORE 560002	2	76	49
Gangotti Complex, Briadbhada Road, T.T. Nagat	BHOPAL 462003	6	27	18
QE Kalpans Area	BHUBANESHWAR 751014	. 5	36	27
Ahimsa Bldg. SCO 82-83. Sector 17C	CHANDIGARH 160017	2	83	20
5-8-56C L. N. Gupte Marg	HYDERABAD 500001	22	10	93
D.277 Todarmal Marg, Banipark	JAIPUR 302008	6	38	32
117:418 B. Sarvodaya, Nagar	KANPUR 208005	8	12	72
Pathputra Industrial Estate	PATNA 800013	6	28	08
Hantes Bldg (2nd Floor), Rly Station Road)	TRIVANDRUM 695001		32	27